BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

BRNO'. 631/28-11-16.

Job code: 010-17-000002

First and Final Bill

M.A.R. 57 (Rule 116)

Measurement Book No. A/10

192250

Serial No..... Improvements to Roads and drains at 1st Main and 4th cross Nanjappa Layout in ward No. 10

Name of work.....From.....To.....

Name of Contractor of nature of Agency..... Executive Engineer, KRIDL

BRNO' 631/28.11.16

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work order No: BBMP/EE/BTP/WO/107/2016-17 Dated: 19.08.2016.						
	Est cost: Rs. 25.00 Lakhs						
	Date of Recording: 29.08.2016						
	1) Earth work excavation by manual means in ordinary soil involving an average lift upto 2m and an average lift upto 0.50 m excavated surface levelled and sides neatly dressed the disposal earth to be levelled neatly after breaking of clods etc complete as per specification.						
	c/o drain 4th cross	~~31.00~~	30.00	1.00	1.00	30.00	
		1	28.00	1.00	1.00	28.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	1.00	1.00	30.00	
		1	37.00	1.00	1.00	37.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	~~30.00~~ 30.80	1.00	1.00	~~30.00~~ 30.80	
	culverts	1	6.20	2.00	1.20	14.88	
		1	5.80	2.00	1.20	14.16	
						332.80 m³	
							27676=10
					Rs. 83.16/m³		
	2) providing and laying in Portion Plain cement concrete of mix 1:4:8 with opc cement @ 180 kgs with hom m and down size excluded granite metal course aggregates @ 0.85 cu and fine aggregates @ 0.57 cu machine mixed concrete						

Serial No.....

Name of work.....

Name of Contractor of nature

Date of commencement of wo

Date	Full description, etc, o
1	2
	laid in layers ne and plinth inclu specification
	ce drain 4.0m ce
	culverts

NT BOOK

Dimensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
1·00	1·00	30·00	
1·00	1·00	37·00	
1·00	1·00	30·00	
1·00	1·00	30·00	
1·00	1·00	30·00	
1·00	1·00	30·00	
1·00	1·00	30·00	
1·00	1·00	30·90	
2·00	1·20	14·88	
2·00	1·20	14·16	
		332·80m	

@ Rs. 83·16/m³ — 27676=80

Zadhav AE

ment concrete & mix 1:4:8 with
own size excluded granite metal
@ 0·57cy machine mixed concrete

M.A.R. 57 (Rule 116)

Measurement Book No. A/10

192251

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	laid in layers not exceeding 15cm thick well compacted in foundation and plinth including cost of materials labours etc complete as per specification						
	c/d drain 4th cross	1	30·00	1·00	0·15	4·50	
		1	28·00	1·00	0·15	4·20	
		1	30·00	1·00	0·15	4·50	
		1	37·00	1·00	0·15	5·55	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·90	1·00	0·15	4·64	
	culverts	1	6·20	2·00	0·15	1·86	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	5.90	2.00	0.15	1.77	
						48.82 m³	
					ER	5020.00/m³	247648=00
							Jadhav AE
	Measurement continued on: 02.09.2016						
3)	providing and construction granite / trap / basalt dressed stone masonry in foundation with cement mortar 1:6 stone hammered in course not less than 20cm high bond stone at 2m apart in each course including cost of material labour, curing etc complete as per specification						
	Culvert	2	6.20	0.60	0.90	6.69	
		2	5.90	0.60	0.90	6.37	
						12.96 m³	
					ER.	4135.32/m³	53594=00
							Jadhav AE

Serial No.....

Name of work.....

Name of Contractor of nature of Agency..

Date of commencement of work.....

Date	Full description, etc, of work
1	2
4)	providing flush pointing to stone masonry with cement to depth of 20mm nicely finishing complete as per specification

BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
2.00	0.15	1.77	
		48.84 m³	
			247648=00
ER	5070.00/m³		
		Zadhav AE	
d on; 02.09.2016			
ckness size stone masonry in mented in course not less than course including cost of material bour			
0.60	0.90	6.69	
0.60	0.90	6.37	
		12.96 m³	
ER.	4135.32/m³		53594=00
		Zadhav AE	

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 192252

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) Providing flush pointing to square rubble stone course or uncoursed stone masonry with cement mortar 1:4 20mm deep after raking joints to depth of 20mm nicely finishing including cost of material labour, curing etc complete as per specification						
		2	6.20	-	0.90	11.16	
		2	5.90	-	0.90	10.62	
						21.00 m²	
				ER.	96.12/m²		2076=00
						Zadhav AE	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Measurement continued on: 28.09.2016					
	5) providing and laying cement concrete using 20mm and down size granite Jelly of ready mixed concrete (RMC) for RCC works laid in 15 cms thick layers and well compacted vibrating curing finishing with necessary cement mortar form work and scaffolding to withstand pumping of concrete with all lead and lift etc complete (exclusive of cost of steel and fabrication charges) ready mixed cement concrete M20 (1:1.5:3) for raft foundation column footing main and secondary beams etc complete as per specification						
	CC Drain Bottom	1	30.00	0.80	0.15	4.05	
		1	28.00	0.80	0.15	3.78	
		1	30.00	0.80	0.15	4.05	
		1	37.00	1.00	0.15	5.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.80	1.00	0.15	4.64	

14/11

Serial No.....

Name of work.....

Name of Contractor of nature of

Date of commencement of work

Date	Full description, etc, of w
1	2
	Side wall
	Checked
	Culvert deck

BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
continued on: 28.09.2016			
20mm and down size granite			
c. works laid in 15 cm. thick			
finishing with necessary			
with stand pumping & concreti			
e & cost of steel and fabrication			
0C(1:1.5:3) for raft foundation			
complete as per specification			
0.80	0.15	4.05	
0.80	0.15	3.78	
0.80	0.15	4.05	
1.00	0.15	5.50	
1.00	0.15	4.50	
1.00	0.15	4.50	
1.00	0.15	4.50	
1.00	0.15	4.50	
1.00	0.15	4.50	
1.00	0.15	4.50	
1.00	0.15	4.64	

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 192253

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Side wall	2	30.00	0.15	0.60	5.40	
		2	28.00	0.15	0.65	5.46	
		2	30.00	0.15	0.65	5.85	
		2	37.00	0.15	0.60	6.66	
		2	30.00	0.15	0.60	5.85	
		2	30.00	0.15	0.65	5.85	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.58	
		1	30.90	0.15	0.60	2.57	
	Culvert Deck Slab	1	6.20	1.80	0.23	2.64	
		1	5.80	1.80	0.23		

Checked
14/11

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3.	4	5	6	7	8
						105.59 m3	
					@Rs. 6332.00/m3		668600.00
	6) Providing TMT Steel reinforcement for RCC work including straightening cutting, bending, hooking, placing in position lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks, and wastage shall not be measured and paid) cost of material (cesses, HOM machinery complete as per specification TMT Bars Fe 500 etc complete as per specification. Qty as per Premeasurement Recorded vide Page No.: 192296 of this MB i/a					1.92 Tonnes	
					@Rs. 59327.91/Tonne		469877.00
	7) Providing and removing centering shuttering, strutting propping etc and removal of form work for vertical surface such as walls at any thickness including attached						

Jadhav AE

Jadhav AE

Serial No.....

Name of work.....

Name of Contractor of nature of

Date of commencement of work

Date	Full description, etc, of w
1	2
	Pilasters, buttresses, etc complete as per D (C Drain Sicle

IT BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		105.59 m3	
	@Rs. 6332.00/m3		668600-00
ore including straightening		Jadhav AE	
pping and/or welding wherever			
to the adjoining members			
hooks, and walije shall not be			
HOH machinery complete as per			
per specification.			
rement Recorded vide			
& this MB i/a		7.92 Tonnes	
	@Rs. 59327.91/Tonne		469877.00
		Jadhav AE	
ifting propping etc and removal			
at any thickness including attached			

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 192254

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pilasters, buttresses, Plinth and string courses etc complete as per specification and direction & engineer in charge & work			work & all materials labours			
	CC Drain Side Wall	4	30.00	-	0.60	72.00	
		4	28.00	-	0.60	67.20	
		4	30.00	-	0.60	72.00	
		4	37.00	-	0.60	88.80	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	30.00	-	0.60	72.00	
		4	30.90	-	0.60	74.16	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Culvert	1	6.20	0.60	-	3.72	
		1	5.90	0.60	-	3.54	
		2	6.20	-	0.23	3.72	
		2	5.90	-	0.23	3.54	
		2x2	1.80	-	0.23	1.66	
						743.98 m2	
						@ Rs. 306.72/m2	228194.00
	8) providing granite slab of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc complete 75 cm Thick etc complete as per specification						Badhai AE
	BS slab covering	1	30.00	0.90	-	27.00	
		1	28.00	0.90	-	25.20	
		1	30.00	0.90	-	27.00	
		1	37.00	0.90	-	33.30	
		1	30.00	0.90	-	27.00	

M.A

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	3
	9) providing chamfering edges chamfered length shall be	5

BOOK

ons Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
0.60	-	3.72	
0.60	-	3.54	
	0.23	3.72	
	0.23	3.54	
	0.23	1.66	
		743.98 m2	
Rs. 306.72/m2			228194=00
roughly dressed and fixed		Badhao AE	
ing cc complete 7.5cm Thick			
0.90	-	27.00	
0.90	-	25.20	
0.90	-	27.00	
0.90	-	33.30	
0.90	-	27.00	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 192255

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00	0.90	-	27.00	
		1	30.00	0.90	-	27.00	
		1	30.00	0.90	-	27.00	
		1	30.00	0.90	-	27.00	
		1	30.00	0.90	-	27.81	
						273.60 m2	
				Rs.	642.60/m2		175815=00
	9) providing chamfering edges slabs 2.5cm wide as per specification (only chamfered length shall be recorded) cc complete as per specification.					Badhao AE	
		507	3.00	-	-	1520.00 m	54173=00
						Rs. 35.6/m	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10)	providing Two line dressing to granite stone slab / granite stone masonary as per specification						
		Qty as per Item No. (8)				273.60 m²	
						@ Rs. 924.48/m²	252938 = 00
	Measurement continued on: 28-10-2016						Jadhao AE
11)	providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 280 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and sills including cost of all materials labours etc complete as per specification						
		1	30.00	0.30	0.10	0.90	
		1	28.00	0.30	0.10	0.84	
		1	30.00	0.30	0.10	0.90	
		1	37.00	0.30	0.10	1.11	
		1	30.00	0.30	0.10	0.90	
		1	30.00	0.30	0.10	0.90	
		1	30.00	0.30	0.10	0.90	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency...

Date of commencement of work.....

Date	Full description, etc, of work	
1	2	
	Culvert coping	
	Ramp	

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
one slab / granite stone			
m No. (8)		273.60 m	
		@ Rs. 924.48/m	252938 = 00
treated on: 28-10-2016			Jadhao AE
ement concrete ratio 1:2:4			
own size cracked granite			
e aggregates @ 0.459 cu meeting			
ding 15 cms thick well			
including cost of all materials			
0.30	0.10	0.90	
0.30	0.10	0.84	
0.30	0.10	0.90	
0.30	0.10	1.11	
0.30	0.10	0.90	
0.30	0.10	0.90	
0.30	0.10	0.90	

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 192256

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	0.30	0.10	0.90	
		1	30.00	0.30	0.10	0.90	
		1	30.90	0.30	0.10	0.90	
	Culvert coping	1	6.20	1.80	0.10	1.17	
		1	5.90	1.80	0.10	1.06	
					Av 0.15	1.67	
	Ramp	2	6.20	0.90			
		2	5.90	0.90	0.15	1.59	
						14.52 m³	
				@ Rs.	5490.72/m³		79725 = 00
							Jadhao AE

C & F
Mehwish

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	12) Lead for disposal shall be payable at carriage rates by mechanical means including loading and unloading etc complete as per specification						
		Qty as per Item No. ①				312.83 m³	
						@ Rs. 106.34/m³	33266=00
							22,93,582
		Sub Total					2293514=00
		KRIDL charges @ 8%					183481=00
		Add VAT @ 1%					22934
						Grand Total	24,76,995=00
							24,99,908
							Jadhav AE 28/10/16
	Certificate: certified that the above work done is satisfactorily.						
	Jadhav AE 28/10/16						28/10/16

Serial No.....

Name of work.....

Name of Contractor of nature of Agency....

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	Sketch sh	
	31.00m	
	Jadhav AE 28/10/1	

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
carriage rates by mechanical			
y etc complete as per			
Item No. ①		312.83 m³	
@ Rs. 106.34/m³			33266-00
			22,93,582-
Sub Total			~~22935400~~
KRIDL charges @ 8%			183487-00
Add VAT @ 1%			22934-
		Grand Total	~~24,76,995-00~~
			24,99,908-

Jadhav
AE 28/10/16

e done is satisfactorily.

28/10/16

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 192257

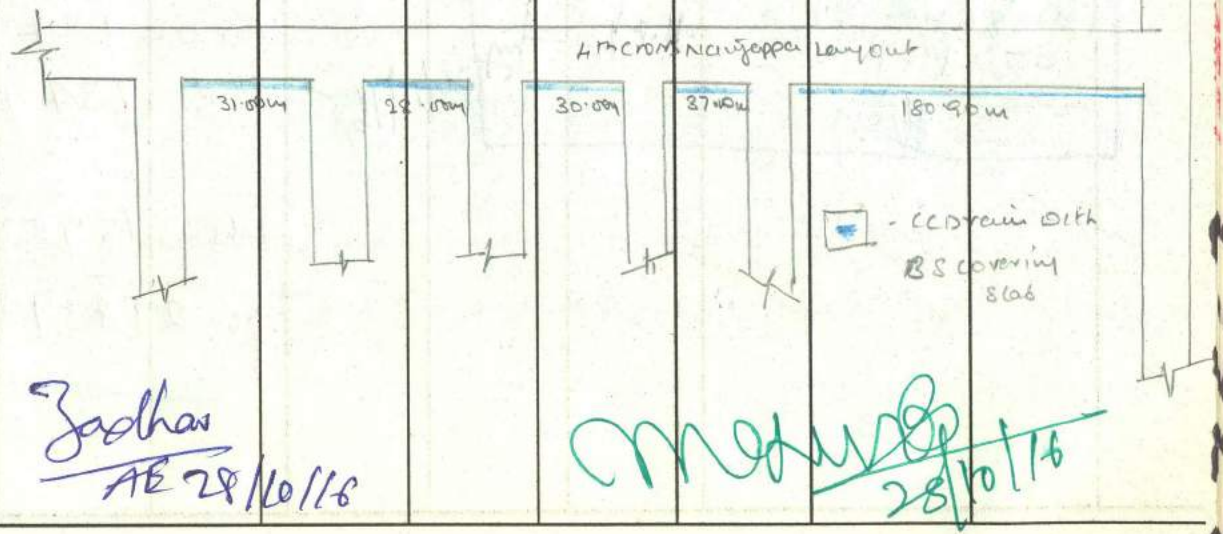
Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sketch showing the work done spot:						



Jadhav
AE 28/10/16

28/10/16